



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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<p>(21) International Application Number: PCT/US94/14323</p> <p>(22) International Filing Date: 20 December 1994 (20.12.94)</p> <p>(30) Priority Data: 08/171,239 21 December 1993 (21.12.93) US</p> <p>(71) Applicant: MINNESOTA MINING AND MANUFACTURING COMPANY [US/US]; 3M Center, P.O. Box 33427, Saint Paul, MN 55133-3427 (US).</p> <p>(72) Inventors: OUDERKIRK, Andrew, J.; P.O. Box 33427, Saint Paul, MN 55133-3427 (US). WEBER, Michael, F.; P.O. Box 33427, Saint Paul, MN 55133-3427 (US). JONZA, James, M.; P.O. Box 33427, Saint Paul, MN 55133-3427 (US). STOVER, Carl, A.; P.O. Box 33427, Saint Paul, MN 55133-3427 (US).</p> <p>(74) Agents: JORDAN, Robert, H. et al.; Minnesota Mining and Manufacturing Company, Office of Intellectual Property Counsel, P.O. Box 33427, Saint Paul, MN 55133-3427 (US).</p>		<p>(81) Designated States: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LT, LU, LV, MD, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, UZ, VN, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG), ARIPO patent (KE, MW, SD, SZ).</p> <p><b>Published</b></p> <p><i>With international search report.</i></p> <p><i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i></p>
<p>(54) Title: MULTILAYERED OPTICAL FILM</p>		
<p>The diagram illustrates a multilayered optical film (10) consisting of eight alternating layers. The layers are labeled as follows from top to bottom: PEN n = 1.88 (12), coPEN n = 1.64 (14), PEN n = 1.88 (12), coPEN n = 1.64 (14), PEN n = 1.88 (12), coPEN n = 1.64 (14), PEN n = 1.88 (12), and coPEN n = 1.64 (14). The layers are shown as horizontal bars with a vertical dashed line indicating the interface between them. Arrows labeled 12 and 14 point to the respective layers, and a bracket labeled 10 encompasses the entire stack.</p>		
<p>(57) Abstract</p> <p>The present invention includes a multilayered polymer film (10) comprising a body of a plurality of alternating layers (12) of a crystalline naphthalene dicarboxylic acid polyester and another selected polymer (14) wherein the layers have a thickness of less than 0.5 micrometer and wherein the crystalline naphthalene dicarboxylic acid polyester layer has a higher index of refraction associated with at least one in-plane axis adjoining layers of the selected polymer.</p>		